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BAB 3

WINDOWS EXPLORER

Mulai Bab 3 ini dan selanjutnya, kita akan mencoba membuat tiruan program-program aplikasi pada Windows dengan memanfaatkan pola VB Enterprise Edition Controls.

Program pertama ini mencontoh aplikasi Windows Explorer, untuk menampilkan folder dan file pada komputer Anda.

3.1 Desain Form

Buatlah folder baru, namai dengan “Explorer”. Jalankan Visual Basic, pilih pola VBEnterprise Edition Controls.

Pada form, sisipkan objek ImageList, namai dengan “imgMain”. Klik kanan pada imgMain, pilihlah 16 x 16 pada tab General. Klik tab Images dan klik **Insert Picture...** Masukkan 25 gambar ikon (ikon-ikon disediakan pada CD yang disertakan).

Ubah nama Key dari tiap-tiap Image seperti table di bawah ini.

Index	Key	Index	Key
1	komputer	14	xls
2	ini	15	mdb
3	inf	16	recycle

4	mid	17	filegeneric
5	wav	18	mp3
6	bat	19	folder1
7	exe	20	folder2
8	dll	21	diska
9	imf	22	cdrom
10	txt	23	desktop
11	jpg	24	disket
12	drivelepas	25	diskanet
13	doc		

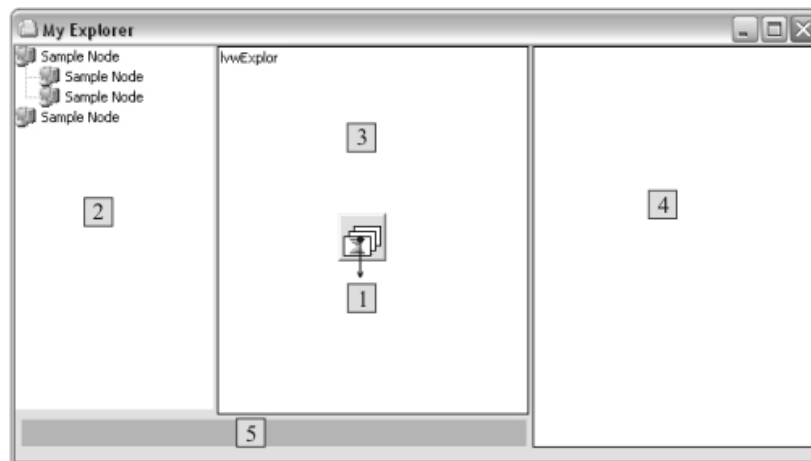
Catatan:

Hati-hati dalam pemberian nama Key dari Image-Image pada ImageList. Perbedaan huruf besar dan huruf kecil sangat berpengaruh pada hasil (bersifat case sensitif).

Sisipkan objek kontrol dan atur propertinya seperti pada table di bawah ini:

Pengaturan pada:		Form1	
No	Objek Kontrol	Properti	Perubahan
2	TreeView	Name	twwExplor
		ImageList	imgMain
3	ListView	Name	lvwExplor
		ImageList	imgMain
4	RichTextBox	Name	rtbExplor
		Appearance	0-rtfFlat
		ScrollBar	3-rtfBoth
5	ProgressBar	Name	pgbExplor
		Scrolling	1-ccScrollingSmooth

Simpan semua komponen project di direktori “Explorer”.



Gambar 3.1. Desain form Explorer.

Setelah desain form selesai, klik menu **Project-References...** Pada dialog “References-Project1”, tandai kotak periksa dari list “Microsoft Scripting Runtime”. Jika Anda tidak menemukan list ini, klik tombol **Browse...** Pada kotak dialog “Add References”, kliklah file “scrn.dll” (alamat menunjukkan direktori Windows\System atau Windows\System32). Klik **Open**.

3.2 Baris Kode

```

1 Option Explicit
2 Private Declare Function SendMessage _
  Lib "user32" Alias "SendMessageA" ( _
  ByVal hwnd As Long, ByVal wParam As Long, _
  ByVal lParam As Long, lParam As Any) As Long
3 Private ObjekFile As New FileSystemObject
4 Dim strPathX As String
5 Dim TwipsInHimetric!
6 Dim sPath As String
7 Private Sub Form_Load()
8 On Error Resume Next

```

9	Dim drvDrive As Drive
10	Dim strIkon As String
11	Dim strNama As String
12	Dim fldFolder As Folder
13	Dim fldDrive As Folder
14	TwipsInHimetric = ScaleX(1, vbTwips, _ vbHimetric)
	'Mengenali semua drive pada sistem komputer
15	For Each drvDrive In ObjekFile.Drives
16	If drvDrive.DriveType = CDROM Then
17	strIkon = "cdrom"
18	If drvDrive.IsReady Then
19	strNama = drvDrive.VolumeName
20	Else: strNama = "CD-ROM"
21	End If
22	ElseIf drvDrive.DriveType = Fixed Then
23	strIkon = "diska"
24	If drvDrive.IsReady Then
25	strNama = drvDrive.VolumeName
26	Else: strNama = "Hard Drive"
27	End If
28	ElseIf drvDrive.DriveType = Remote Then
29	strIkon = "diskanet"
30	If drvDrive.IsReady Then
31	strNama = drvDrive.ShareName
32	Else: strNama = "Network Drive"
33	End If
34	ElseIf drvDrive.DriveType = Removable _
	Then
35	If drvDrive.DriveLetter = "A" Or _
	drvDrive.DriveLetter = "B" Then
36	strIkon = "disket"
37	Else: strIkon = "drivelepas"
38	End If
39	If drvDrive.IsReady Then
40	strNama = drvDrive.VolumeName
41	Else
42	If drvDrive.DriveLetter = "A" Or _
	drvDrive.DriveLetter = "B" Then
43	strNama = "Floppy Drive"
44	Else: strNama = "Drive Lepas"
45	End If
46	End If
47	If drvDrive.IsReady Then
48	strNama = drvDrive.VolumeName
49	Else
50	strNama = "Tidak diketahui"
51	End If

32	End If
33	'Membuat cabang pada TreeView dengan teks "Komputer"
	tvwExplor.Nodes.Add , , "pc", _
	"komputerku", "komputer", "komputer"
34	tvwExplor.Nodes.Add "pc", _
	tvwChild, drvDrive.Path, _
	strNama & " (" & _
	UCase(drvDrive.DriveLetter) & ":", strIkon
35	If drvDrive.IsReady Then
36	Set fldDrive = ObjekFile.GetFolder(_
	drvDrive.RootFolder)
37	For Each fldFolder In fldDrive.SubFolders
	'Membuat daftar Drive pada TreeView
38	tvwExplor.Nodes.Add drvDrive.Path, 4, _
	fldFolder.Path, fldFolder.Name, "folder1"
39	Next
40	End If
41	Next
	'Memilih cabang pada TreeView
42	Me.tvwExplor.Nodes(1).Selected = True
43	End Sub
44	Private Sub Form_Resize()
	'Mengatur letak dan ukuran kontrol-kontrol pada form
	'saat form berubah ukuran
45	Me.tvwExplor.Move tvwExplor.Left, _
	tvwExplor.Top, tvwExplor.Width, _
	Me.ScaleHeight - Me.pgbExplor.Height
46	Me.lvwExplor.Move lvwExplor.Left, _
	lvwExplor.Top, Me.lvwExplor.Width, _
	Me.ScaleHeight - Me.pgbExplor.Height
47	Me.pgbExplor.Move 0, Me.ScaleHeight - _
	Me.pgbExplor.Height, Me.ScaleWidth, _
	Me.pgbExplor.Height
48	Me.rtfExplor.Width = Me.ScaleWidth - _
	Me.lvwExplor.Width - _
	Me.tvwExplor.Width - 100
49	Me.rtfExplor.Height = Me.ScaleHeight - _
	Me.pgbExplor.Height
50	End Sub
51	Private Sub lvwExplor_ItemClick(_
	ByVal Item As MSComctlLib.ListItem)
52	Dim nSt As Integer

	'Menuliskan alamat direktori pada TitleBar form
53	Me.Caption = strPathX & IIf(_ Len(strPathX) <= 4, "", "\") & Item.Text
	'Memanggil prosedur LihatFile
54	LihatFile Me.Caption
55	End Sub
56	Private Sub tvwExplor_Collapse(_ ByVal Node As MSComctlLib.Node)
57	If Node.Image = "folder2" Then _ Node.Image = "folder1"
58	End Sub
59	Private Sub tvwExplor_Expand(_ ByVal Node As MSComctlLib.Node)
60	On Error Resume Next
61	Dim SubSubfolder As Folder
62	Dim Subfolder As Folder
63	Dim fldFolder As Folder
64	Dim i%
65	If Node.Image = "folder1" Then _ Node.Image = "folder2"
66	Set fldFolder = ObjekFile.GetFolder(_ Node.Key & "\")
68	For Each Subfolder In fldFolder.SubFolders
39	For Each SubSubfolder In Subfolder.SubFolders
	'Menampilkan nama-nama direktori dan sub direktori 'ke dalam TreeView
70	tvwExplor.Nodes.Add Subfolder.Path, 4, _ SubSubfolder.Path, _ SubSubfolder.Name, "folder1"
71	i = i + 1
	'Mengatur pergerakan ProgressBar
72	Me.pgbExplor.Value = i / _ fldFolder.SubFolders.Count * 100
73	DoEvents
74	Next
75	If Me.pgbExplor.Value >= 100 Then
76	Me.pgbExplor.Value = 0
77	i = 0
78	End If
79	Next
80	End Sub
81	Private Sub tvwExplor_NodeClick(_ ByVal Node As MSComctlLib.Node)
82	On Error Resume Next
83	Dim SubSubfolder As Folder

```

84 Dim fldFolder As Folder
85 Dim filFile As File
86 Dim Subfolder As Folder

87 lvwExplor.ListItems.Clear
88 Set fldFolder = ObjekFile.GetFolder( _
    Node.Key & "\" )

89 strPathX = fldFolder
90 Me.Caption = strPathX
91 Dim xFile$, i As Integer

    For Each Subfolder In fldFolder.SubFolders
        lvwExplor.ListItems.Add , _
92         Subfolder.Path, Subfolder.Name, _
93         "folder1", "folder1"
        i = i + 1
        Me.pgbExplor.Value = i / _
94         fldFolder.SubFolders.Count * 100
95         DoEvents
    Next

    'Menampilkan nama-nama file ke dalam
    'ListView
96 For Each filFile In fldFolder.Files
97     xFile = LCase(Right(filFile.Name, 3))
98     lvwExplor.ListItems.Add , _
        fldFolder.Path & "\" & _
        filFile.Name, filFile.Name, _
        xFile, xFile

99     i = i + 1
100    Me.pgbExplor.Value = i / _
        fldFolder.Files.Count * 100

101    If Err Then
102        lvwExplor.ListItems.Add , _
            fldFolder.Path & "\" & _
            filFile.Name, filFile.Name, _
            "filegeneric", "filegeneric"
103    End If
104 Next

105 If Me.pgbExplor.Value >= 100 Then
106     Me.pgbExplor.Value = 0
107     i = 0
108 End If
109 End Sub

'Prosedur untuk menampilkan isi file
110 Sub LihatFile(sFile As String)
111     rtfExplor.Locked = False
112     rtfExplor.Font.Size = 8
113     rtfExplor.Text = ""
114     rtfExplor.SelAlignment = 0
115     rtfExplor.RightMargin = 0

```

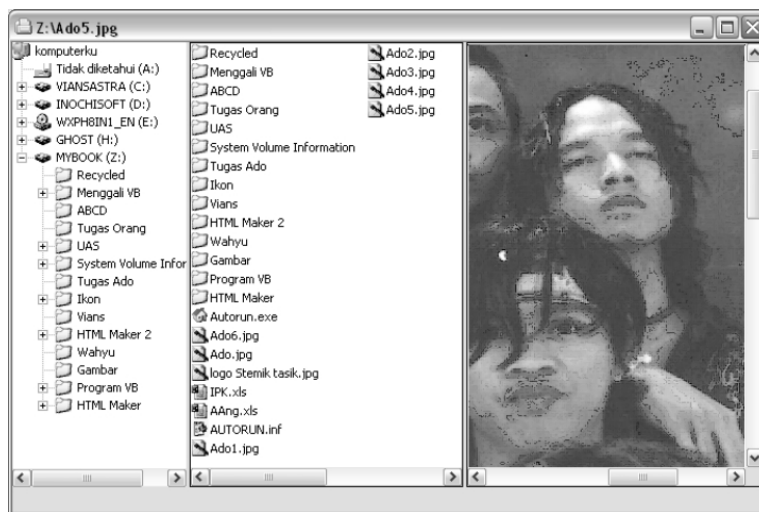
```

116      sPath = sFile
117      'Memilih tipe file
118      On Error GoTo ErrHandler
119      Select Case LCase(Right$(sFile, 4))
120          Case ".bmp", ".jpg", ".gif"
121              Dim pic As StdPicture
122              Set pic = LoadPicture(sPath)
123
124              Clipboard.Clear
125              Clipboard.SetData pic
126
127              SendMessage rtfExplor.hwnd, _
128                  &H302, 0, 0
129
130              Clipboard.Clear
131
132              rtfExplor.RightMargin = _
133                  pic.Width \ TwipsInHimetric
134          Case ".rtf"
135              rtfExplor.LoadFile sPath, rtfRTF
136          Case ".txt"
137              rtfExplor.LoadFile sPath, _
138                  rtfText
139          Case Else
140              rtfExplor.LoadFile sPath, _
141                  rtfText
142      End Select
143
144      rtfExplor.Refresh
145      rtfExplor.Locked = True
146      Exit Sub
147
148      'Penanganan kesalahan jika tipe file
149      ' tidak dikenali
150  ErrHandler:
151      On Error GoTo 0
152      rtfExplor.Text = "Format tidak dikenal"
153      rtfExplor.Refresh
154      rtfExplor.Locked = True
155  End Sub

```

3.3 Tes Program

Jalankan program! Tampilan program saat berjalan akan tampak seperti ilustrasi Gambar 3.2 berikut.



Gambar 3.2. Program sedang berjalan dan menampilkan file gambar.